

09/701014

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L19	L18 and (HIV or EIAV or MLV)	1	L19	Paper # 7
L18	6080912 [pn]	2	L18	
L17	L14 and rabies and pseudotype\$	5	L17	
L16	L14 and rabies near10 pseudotype\$	0	L16	
L15	L14 and rabies near G	0	L15	
L14	L13 and rabies	76	L14	
L13	L12 and retrovir\$ near5 vector\$	556	L13	
L12	dividing near5 non-dividing	1019	L12	
L11	"dividing and non-dividing"	0	L11	
L10	retrovir\$ near10 "dividing and non-dividing"	0	L10	
L9	retrovir\$ near5 "dividing and non-dividing"	0	L9	
L8	dividing near3 non near dividing	1360	L8	
L7	dividing near3 non-dividing	1019	L7	
L6	retrovir\$ and dividing near3 non-dividing	670	L6	
L5	retrovir\$ near5 dividing near3 non-dividing	81	L5	
L4	retrovir\$ near5 dividing near5 "non-dividing"	82	L4	
L3	retrovir\$ near5 dividing near5 non-dividing	82	L3	
L2	retrovir\$ near5 dividing near5 (non-dividing or non near dividing)	82	L2	
L1	retrovir\$ near10 dividing near5 (non-dividing or non near dividing)	118	L1	

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Terms	Documents
EIAV and pseudotype\$	15

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<u>L6</u>	EIAV and pseudotype\$	15	<u>L6</u>
<u>L5</u>	EIAV and pseudotype\$ and rabies	2	<u>L5</u>
<u>L4</u>	EIAV near10 pseudotype\$	3	<u>L4</u>
<u>L3</u>	L1 and equine	0	<u>L3</u>
<u>L2</u>	L1 and EIAV	0	<u>L2</u>
<u>L1</u>	6080912 [pn]	2	<u>L1</u>

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Terms	Documents
L18 and (HIV or EIAV or MLV)	1

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L17: Entry 1 of 5

File: PGPB

Jul 26, 2001

PGPUB-DOCUMENT-NUMBER: 20010009772  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20010009772 A1

TITLE: Retroviral packaging cell line

PUBLICATION-DATE: July 26, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Verma, Inder M.	Solana Beach	CA	US	
Kafri, Tal	San Diego	CA	US	
Bushman, Frederic	Encinitas	CA	US	
Hansen, Mark	San Diego	CA	US	

US-CL-CURRENT: 435/325; 435/235.1, 435/236, 435/320.1, 435/366, 435/369, 435/440,  
435/455, 435/456, 435/457, 435/458, 435/69.1, 435/69.3, 514/44, 530/350, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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☐ 2. Document ID: US 6291740 B1

L17: Entry 2 of 5

File: USPT

Sep 18, 2001

US-PAT-NO: 6291740  
DOCUMENT-IDENTIFIER: US 6291740 B1

TITLE: Transgenic animals

DATE-ISSUED: September 18, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bremel; Robert D.	Hillpoint	WI		
Chan; Anthony W. S.	Aloha	OR		
Burns; Jane C.	LaJolla	CA		

US-CL-CURRENT: 800/23; 435/320.1, 435/325, 435/455, 800/14, 800/21, 800/25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

☐ 3. Document ID: US 6218181 B1

L17: Entry 3 of 5

File: USPT

Apr 17, 2001

US-PAT-NO: 6218181

DOCUMENT-IDENTIFIER: US 6218181 B1

TITLE: Retroviral packaging cell line

DATE-ISSUED: April 17, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Verma; Inder M.	Solana Beach	CA		
Kafri; Tal	San Diego	CA		
Bushman; Frederic	Encinitas	CA		
Hansen; Mark	San Diego	CA		

US-CL-CURRENT: 435/369; 435/325, 435/366

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 4. Document ID: US 6080912 A

L17: Entry 4 of 5

File: USPT

Jun 27, 2000

US-PAT-NO: 6080912

DOCUMENT-IDENTIFIER: US 6080912 A

TITLE: Methods for creating transgenic animals

DATE-ISSUED: June 27, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bremel; Robert D.	Hillpoint	WI		
Chan; Anthony W. S.	Aloha	OR		
Burns; Jane C.	La Jolla	CA		

US-CL-CURRENT: 800/23; 435/456

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC

☐ 5. Document ID: US 5739018 A

L17: Entry 5 of 5

File: USPT

Apr 14, 1998

US-PAT-NO: 5739018

DOCUMENT-IDENTIFIER: US 5739018 A

TITLE: Packaging cell lines for pseudotyped retroviral vectors

DATE-ISSUED: April 14, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miyanohara; Atsushi	San Diego	CA		
Yee; Jiing-Kuan	Del Mar	CA		
Chen; Shin-Tai	San Diego	CA		
Prussak; Charles Edward	San Diego	CA		
Friedmann; Theodore	La Jolla	CA		

US-CL-CURRENT: 435/456; 435/320.1, 435/325, 435/463

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Terms	Documents
L14 and rabies and pseudotype\$	5

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L17: Entry 2 of 5

File: USPT

Sep 18, 2001

US-PAT-NO: 6291740  
DOCUMENT-IDENTIFIER: US 6291740 B1

TITLE: Transgenic animals

DATE-ISSUED: September 18, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bremel; Robert D.	Hillpoint	WI		
Chan; Anthony W. S.	Aloha	OR		
Burns; Jane C.	LaJolla	CA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Wisconsin Alumni Research Foundation	Madison	WI			02

APPL-NO: 9/ 329749 [PALM]  
DATE FILED: June 10, 1999

## PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application is a continuation-in-part of application Ser. No. 08/821,984 filed Mar. 20, 1997 now U.S. Pat. No. 6,080,912.

INT-CL: [7] C12 N 15/00, C12 N 15/09, C12 N 15/63, C12 N 15/70, A01 K 67/027US-CL-ISSUED: 800/23; 800/14, 800/21, 800/25, 435/320.1, 435/325, 435/455  
US-CL-CURRENT: 800/23; 435/320.1, 435/325, 435/455, 800/14, 800/21, 800/25

FIELD-OF-SEARCH: 800/21, 800/23, 800/25, 800/14, 435/320.1, 435/325, 435/455

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

☐ **Search Selected**☐ **Search ALL**

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5057420</u>	October 1991	Massey	800/24
<input type="checkbox"/>	<u>5175384</u>	December 1992	Krimpenfort et al.	800/11
<input type="checkbox"/>	<u>5453366</u>	September 1995	Sims et al.	800/24
<input type="checkbox"/>	<u>5512421</u>	April 1996	Burns et al.	435/320.1
<input type="checkbox"/>	<u>5523222</u>	June 1996	Page et al.	800/25
<input type="checkbox"/>	<u>5550034</u>	August 1996	Teng et al.	435/69.1

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
90/08832	August 1990	WOX	
94/29440	December 1994	WOX	

## OTHER PUBLICATIONS

Krimpenfort et al., 1991, *Biotechnol*, 9: 844-847.\*  
 Sell et al., 1994, *Carcinogenesis*, 15, 2057-2060.\*  
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ART-UNIT: 162

PRIMARY-EXAMINER: Clark; Deborah J. R.

ASSISTANT-EXAMINER: Paras, Jr.; Peter

ATTY-AGENT-FIRM: Quarles & Brady LLP

#### ABSTRACT:

The present invention provides improved methods and compositions for the generation of transgenic non-human animals. The present invention permits the introduction of exogenous nucleic acid sequences into the genome of unfertilized eggs (e.g., pre-maturation oocytes and pre-fertilization oocytes) by microinjection of infectious retrovirus into the perivitelline space of the egg. The methods of the present invention provide an increased efficiency of production of transgenic animals with a reduced rate of generating animals which are mosaic for the presence of the transgene.

7 Claims, 4 Drawing figures